

## R.M. Blackburn: EFF Distinguished Visitor

R.M. Blackburn, widely recognized as a leading researcher in the sociology of work, occupations and stratification, will be an Endowment Fund for the Future Distinguished Visitor in the Department of Sociology from 12 September to 2 October. He has published six books and numerous articles on these topics.

A Fellow of Clare College at the University of Cambridge since 1966, Dr. Blackburn has been head of sociological research at Cambridge's Department of Applied Economics. He has initiated and directed several ground-breaking, large-scale empirical studies on perceptions of work, unionization, labor markets for manual workers, and white-collar occupations. In addition, he and his colleagues have developed an original and powerful measure of social status, known as the Cambridge Scale.

Joining with Sociology to co-sponsor Dr. Blackburn's visit are the Departments of Organizational Analysis, Educational Foundations, and Physical Education and Sport Studies.

"No doubt Dr. Blackburn's lectures and seminars will serve to stimulate research by social scientists at the U of A on topics related to work and social inequality," says Graham Lowe (Sociology).

The particulars of Dr. Blackburn's various seminars and public lecture will be printed in the "Talks" section of *Folio*. □

## OPA Present at Registration

Public Affairs staff look forward to meeting students and staff during Freshman Introduction Week (specifically, 6 and 7 September) in the Universiade Pavilion.

The Public Affairs booth, which will feature showings of the

University of Alberta video "In Pursuit of Excellence," will be open from 8 a.m. to 5 p.m. both days.

Look for a large panel display unit bearing a number of color photographs of University people and places. □

# FOLIO

University of Alberta

1 September 1988

## Heritage Languages Institute Could be Located in Close Proximity to University of Alberta

Will the new Heritage Languages Institute have a connection with the University of Alberta?

Quite likely, but that remains to be worked out, says Henry Kreisel, who along with Michael Batts of the University of British Columbia, wrote a report on the institute at the federal government's request.

Dr. Kreisel thinks that the Board of Governors may be asked to vote on whether the institute could be located near the University of

Alberta. Certainly, it's not to be an institute of the University of Alberta, he says. It will be a free-standing institute with its headquarters in Edmonton, Dr. Kreisel told *Folio*.

Grant MacEwan Community College also has an interest in the institute, he said.

"We were flying in the dark to some extent," he says of the work he and Dr. Batts handed in on 31 December, "because no such

institute exists anywhere in the world."

Fifty-six languages are used in Alberta, 100 languages are used across Canada . . . when Monday morning arrives, what do you do first? Dr. Kreisel muses.

A 21-member board, now being formed, will oversee the work of the institute. The board will appoint a director and two officers, and Dr. Kreisel believes the appointment of the former to be crucial. The director, he says, must be a highly qualified linguist and a diplomat.

The first board meeting will likely be held late this fall, he expects. □



**Campaign Contribution:** Dirk Born (Grounds Division, Physical Plant) converts the sidewalk stretching from the Students' Union Building north to the Nuclear Research Centre into a test site for the "Keep Right" campaign. Similar markings are in place on 88th Avenue between 110th and 112th Street and between the North Power Plant and the South Lab. Pedestrians and bicyclists share the expanses of pavement, with pedestrians having the right of way at all times. Another visible initiative of the campaign are the "Keep Right" posters which have just appeared around campus.

Photo/University of Alberta/OPA

## Contents

- Hugh Knowles: landscaper par excellence
- Walter Harris serves analytical chemistry for 50 years
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## Value of CIPS Scholarship in Computing Science Increases

On 23 August, Ross Hewett, president of the Edmonton Section of the Canadian Information Processing Society (CIPS), presented a cheque for \$9,075.56 to Bob Crawford, Acting Chairman, Department of Computing Science. The funds will contribute to the CIPS Scholarship for undergraduate computing science students at the University of Alberta.

The donation is expected to receive a matching grant from the provincial government.

The funds are a result of a special agreement struck in 1986 between CIPS and the University of Alberta to combine their efforts in the organization and promotion of the annual Edmonton CIPS Conference. This joint effort is the result of the desire and the need for both academics and practitioners of computer and information science to exchange ideas, concerns and opinions. At the conference, held each November, academics describe their latest research results, and outstanding members of the computer field express their opinions on current and future developments in the fast-moving field of information science.

The CIPS Scholarship was created from an initiative started by Ted Barnicoat, currently with



Photo: University of Alberta/Photo Services

Dr. Crawford (left) and Ron Chilibeck (centre), director of Student Awards, welcomed Mr. Hewett to University House and thanked him for the CIPS Scholarship funds.

Canadian Utilities Ltd. and a strong promoter of CIPS, and Wayne Davis (Computing Science), a long-standing CIPS member. □

## University of Winnipeg Hosting 'Future Visions' Conference

Organizers of a national conference titled "Future Visions" have aimed high.

Their objective is "to bring together individuals concerned with addressing the societal changes that will create tomorrow's world."

On 2, 3 and 4 October at the University of Winnipeg, business people, educators, administrators, consultants, and federal and provincial civil servants will gather at the invitation of Waris Shere of that institution's division of continuing education.

Dr. Shere recently notified John Bertie, president of our University's Association of the Academic Staff, of the conference and asked that notice of the conference be conveyed to faculty.

Speakers include Fraser Mustard, president of the Canadian Institute for Advanced Research ("Impacts of New Communication Technologies in Industry and

Employment"); Peter Mansbridge, anchor of CBC TV's "The National" ("The Role of Media in the Future"); Lewis Perinbam, vice-president of CIDA ("Developing World - Burden or Opportunity"); and Geraldine Kenney-Wallace, who chairs the Science Council of Canada ("Visions of the Future: Science That Shapes Our Choices").

Dr. Shere says, "I think we really can see the future—but not at 100 percent accuracy . . . but those close to the scene, their guess is stronger than that of a layman."

The conference, he points out, has tried to be as broad in focus as possible to reflect the need for a generalist understanding in a society of constant change and uncertainty.

Dr. Shere's address is: Room 2M70, Manitoba Hall, 515 Portage Avenue, Winnipeg, Manitoba R3B 2E9. Telephone: 786-9468. □

## FOLIO

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Editor

Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.



University  
of  
Alberta

### Deadlines:

Notice of coming events: 9 a.m. three weeks in advance of desired publication date.

Classified advertisements: 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50.

Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to select, edit and position submitted copy. Views expressed in *Folio* do not necessarily reflect University policy.

*Folio* contents may be reprinted with acknowledgment.

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# His Vision and Creative Talents Shaped Our Campus Landscape

Tucked away at the north end of campus between V-Wing, Chemistry and Physics, the determined explorer will discover a triangular courtyard where a fountain splashes in a pool edged with birches and evergreens, bordered by shrubs and flowers, a bench here and there for quiet reflection.

In June, this pocket of tranquil beauty, the work of Hugh Knowles, landscape architect, professor of horticulture, and superintendent of grounds for sixteen years, was formally renamed "Hugh Knowles Court" in recognition of the man whose creative talents gave the University landscape the shape and grace it wears today.

Last week, at *Folio's* invitation, Professor Knowles dropped by to tell us a little about how it all happened and to take us for a stroll down some familiar paths.

As he recalls it, it was "a pretty raw campus" facing the young easterner who, with wife, small daughter and a bachelor's degree in horticulture, stepped off the train in Edmonton on a cold January day in 1948 to join the U of A as half-time lecturer in horticulture and half-time grounds superintendent.

Young Knowles's landscaping tasks were first to carry out some designs already planned around various buildings and then to plan the development of the continually growing campus landscape. "Though you couldn't think in terms of a grand design," he says, "there was so much ad hoc building going on."

One of his special pleasures was "trying to expand our palette of materials", and every year Knowles would take a portion of the budget and bring in trees and shrubs not native to the province to try them in the nursery and see what, unexpectedly, might survive.

"It was a lot of fun," he recollects, smiling hugely. "We had

a lot of disappointments, but we had our successes too. There are quite a number of rare plants around now."

Many buildings rose on campus in those early days, and Hugh Knowles designed around them a campus that incorporated "visual events" and vistas to delight the eye and soothe the soul.

Many more buildings have risen across the landscape since 1964, when a full-time appointment in Plant Science took Professor Knowles away from campus landscaping and into full-time teaching and research. (A master's degree in plant physiology (1957) had complemented Knowles's horticultural knowledge and helped make his landscape decisions work. "It's pretty important to know what plants will suit an environment from a physiological point of view as well as aesthetically," he says. And in 1967 he finally acquired the degree in landscape architecture he'd originally wanted, earning it by attending Michigan State part-time over eight years during study leave.)

Today, when asked to suggest some areas or views on campus that please him particularly, he's inclined somewhat wistfully to suggest that there's nothing much special left now.

That, of course, could only seem true to someone "who knew it when . . .".

For, as anyone knows who has ever guided a guest across campus, visitors from all countries of the world and at every season of the year continually exclaim at the beauty of the campus landscape.

And eventually, after a photo session in Hugh Knowles Court and a stroll up to SUB, even Hugh Knowles admits there's beauty on campus still, as he points out a clump of early-blooming February Daphne whose pink blossoms in April are the first flowers of spring; a pear tree rich with golden fruit

outside Agriculture and Forestry's east door; a soft-barked Amur Cork tree at Pembina's southwest corner—one of the few on campus; and the contrast of the soft, fine needles of the Eastern White Pine with the coarser ones of the nearby Mugo.

The truth is, though, that Hugh Knowles isn't really interested in talking of past successes or achievements. He is still having fun and right now he's not thinking of the past but the future.

It's the three dwarf apple trees he planted six years ago that bring a sparkle to his eyes today.

"This is the first year I've had a full crop," he says, leaning forward with excitement to sing the praises of the fruit of the unpoetically named PF 3 (Prairie Fruit 3)—its

aroma, the crisp crunch of the first juicy bite, the tang of its half-sweet half-acid flavor. And the samples he brought in next day proved every word to be true.

*Note.* Professor Knowles is currently working on a new and completely revised edition of his book, *Woody Ornamentals for the Prairie Provinces*.

First published by the Faculty of Extension some 20 years ago, the book has been used by countless professional landscape designers, nurserymen, and homeowners as a guide to selecting, planting and maintaining trees and shrubs.

The new edition deals with 587 species (almost four times as many as before) and is now all but completed. Publication is expected toward the end of the year. □



Photo/University of Alberta/OPA

Hugh Knowles is a Fellow of the Alberta Association of Landscape Architects.

## Harris Acclaimed for Half Century in Analytical Chemistry

During the summer, Walter Harris (Chemistry) was honored for 50 years of service to analytical chemistry. The venue was the Third Chemical Congress of North America; members of the Canadian, U.S., and Mexican Chemical Societies attended the three-day symposium in Toronto.

The symposium was organized by the National Water Quality Laboratory in Ontario in conjunction with the Analytical Chemistry Division of the Canadian Society for Chemistry.

Dr. Harris, who has been at the University of Alberta for 42 years, is currently chairman of the

steering committee for PACC (President's Advisory Committee on Campus Reviews). He was the first chairman of the Analytical Division of the Department of Chemistry.

For his contributions to both teaching and research, Dr. Harris has received a number of awards, including Fellow of the American Association for the Advancement of Science. Last year, he was awarded an honorary DSc from the University of Waterloo.

Walter Harris has 100 publications, including five books, to his credit. □

## Students Invited to 'Be a Buddy'

Alberta International invites Canadian students to "be a buddy" to a student from the People's Republic of China.

The idea is to lend support to a student who is far from home. The "benefits package" includes a cross-cultural experience and the swapping of language lessons and ideas.

Minimum contact with a PRC

student would be twice a month. Alberta International suggests such things as meeting for coffee, walking around campus, and conversing on the phone.

For further information and registration (for the 1988-89 academic year), call Leslie Crawford at 433-9885 before 10 September. □

## Dennis Wighton, 1930 - 1988

As was announced in the previous issue of *Folio*, Dennis Wighton, the APO in the Department of Genetics, died on 10 August 1988. Mr. Wighton was born in England in 1930, came to Canada in 1951 and relocated to Edmonton to the then new Department of Genetics in 1962. He became Administrative Professional Officer in 1968.

With the loss of Dennis Wighton, the department and the University lose a remarkable person. Dennis was not just an effective administrator; he was friend and confidant to academics, technicians and students alike, a man of great integrity and compassion. He operated always in the spirit of service and, in doing so, provided great leadership. He was always active in support of justice and common sense.

Dennis played many parts, so that the sadness at his passing is shared throughout the University and in the community at large; but few of his friends know the breadth of his activities and accomplishments. Before accepting an administrative position at the University, he was an accomplished microscopist. As an administrator he performed far beyond the limits of his job description; he cherished his work and the people about him and sought creative ways to generate

the very best possible circumstances for everyone.

Dennis Wighton was deeply concerned with the environment, having been a founder and long-time activist on the University's Interdisciplinary Committee for Environmental Quality. He expressed his love of nature through work on whale conservation, enjoying greatly the idea of whale aficionados on the great plains. He instigated the Edmonton Bicycle Path system practically single-handedly. In the last decade, he achieved international recognition for his work with insect fossils. In his teens, Dennis apprenticed with the eminent British sculptress Barbara Hepworth and was an accomplished and successful sculptor throughout his life.

Many will remember Dennis as a fascinating public speaker and broadcaster, or as an uproarious raconteur. But most of all, Dennis Wighton will be remembered as a marvellous person who made a real difference to the world and to the people about him. We miss him terribly. Our hearts go out to his wife and three children.

A public memorial service for Dennis Wighton will be arranged shortly. Please call the Department of Genetics (3290) for details. □

## 'The Rape of the Lock'

Forty-one bicycles, many of them the expensive variety, have been reported stolen from campus bike racks since the start of the year.

Thieves are simply taking a pair of bolt cutters to inferior bike locks or cables and leaving campus with their ill-gotten gains.

The total value of the bikes exceeds \$16,000.

"It's false economy in the extreme if a person buying an expensive bike purchases a cheap cable or chain lock," says Ralph Oliver, chief security officer, Campus Security. Many people, he thinks, are getting caught up in the popularity of cycling. Their priorities are 1) buy bike and 2) ride bike. The third priority, secure bike, is way in arrears.

Mr. Oliver recommends the U-shaped lock and adds that each model is guaranteed by the manufacturer.

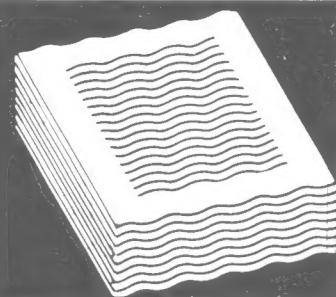
Another suggestion is that cyclists take advantage of Campus Security's Bike Registration Program. It's just a matter of bringing your bike to Campus Security (Education Carpark) and asking that an identifying number be engraved in a location separate from the bike manufacturer's serial number. (Alternatively, Campus Security will loan the engravers to "any person or group who wish to

permanently identify their bicycles.")

Campus Security also provides identification cards for each bicycle. The make, model, color, manufacturer's serial number and owner's I.D. number are recorded. It's also useful to note on the card any special equipment or unique damage that would remain even if the bike were repainted, Mr. Oliver says.

The card is the owner's record in the event of loss and will undoubtedly be very useful when it comes to insurance claims. □

## Currents



### Campus Reviews

As part of the process of carrying out systematic reviews under the guidance of the President's Advisory Committee on Campus Reviews (PACCR), The Grounds Division, Physical Plant is completing the self-study phase of the review process. The other major phase of the process is the site visit and assessment by the Unit Review Committee on 21, 22 and 23 September. In preparation for this second phase, PCCR invites written comment prior to 20 September 1988.

Submissions are for the use of the Unit Review Committee and will be held in confidence by the members of that committee. Submissions should be sent to: Mrs. Shirley Moore, Coordinator, PCCR Office, W4-13 Chemistry Building, Attention: The Grounds Division Unit Review Committee.

### Faculty Badminton Club

Badminton will be played every Wednesday (7:30 to 10 p.m.) in the Education Gymnasium (87th Avenue, west end of Education Centre), beginning 14 September. Faculty, research associates, postdoctoral fellows and spouses are welcome (beginners to experts included). The annual fee of \$15 per person includes cost of birds. For more information, telephone: H. Baadsgaard (432-2778), A.Z. Capri (432-5502), or N. Cyr (450-5417).

### Change of Time for U of A Video

"In Pursuit of Excellence" will be shown on CFRN TV on 2 September at 6:50 p.m., not 7 p.m. as had been announced.

The 18-minute video was produced by Sunwapta Broadcasting Corporation for the University of Alberta.

## Faculty Women's Club All Set for 1988-89 Season

The 1988-89 season of the Faculty Women's Club begins with a coffee party for newcomers hosted by Barbara Horowitz. The party, to be held at Mrs. Horowitz's home (14319 60 Avenue) on Thursday, 15 September, at 7:30 p.m., will be followed by the Fall Membership Tea on Saturday, 17 September (1 to 4 p.m. in the Lister Hall Banquet Room).

Also planned for the new year are a Luncheon on 18 October; a Getaway Weekend on 5 and 6 November; the Muttart Tour, 7 December; Conveners' Dinner, 16 January; a luncheon, 8 February; a wine and cheese party, 14 March; Executive Reunion, 29 March; and the Annual General Meeting and Dinner, 12 April.

Membership in the Club is open to all academic women staff and wives of academic staff. A representative of each Faculty liaises between the Executive Committee and her Faculty's members. At the Membership Tea, members will be invited to join

interest groups which provide activities in which new friendships may be made or old ones continued. In the 30 groups, interests range from sketching to

flower arranging, from book reviews to French conversation. All those eligible are invited to attend the Tea in order to join the Club and sign up for interest groups. □



The Executive Committee for the new season is headed by (from left): Lorraine McDonald (President, 435-5456), Barbara Freeman (Past President), Barbara Horowitz (Honorary President) and Joan Mis (Vice-President).

# The Arithmetic of the Liver

Engineers use mathematics to understand what a heart drug does to the liver.

Chemical engineers at the University of Alberta are working with a group of pharmacists to find out how the liver metabolizes lidocaine, a drug used in the control and prevention of heart attacks.

"The chemical engineers are involved because the liver is the body's chemical factory, and we are trained to analyze chemical reaction systems," says engineer Murray Gray. "We are applying the same equations and techniques to this liver study that we would to chemical reactions in a conventional factory."

Lidocaine, commonly used as a local anesthetic, is also an important cardiac drug. Administered after a heart attack, it soothes the heart muscles, and its calming action helps prevent another heart attack.

But the drug is broken down very fast by the liver. Keeping a therapeutic concentration in the blood stream is difficult. If the concentration gets too high, there are toxic side effects. If it gets too low, it is ineffective. As well, after a time (that varies with each patient) the liver's ability to break down the drug decreases. The amount given must then be carefully adjusted to each patient.

While the pharmacists, working with rat livers, measure the amount of drug and the various byproducts present after the blood has passed through the liver, Dr. Gray and his associate are using mathematics to model and analyze the connections between liver function, byproducts in the bloodstream, and the amount of drug administered.

"After tracking all this, we've formulated a theory that there's a change in the liver enzymes when they get accustomed to the drug, particularly in an enzyme (cytochrome P450) that's very important for drug metabolism," says Dr. Gray.

"We have worked the theory out mathematically, and mathematical simulations confirm the relationship between enzyme change and drug metabolism. The theory is also consistent with what we see in hospital patients. But more work is needed to prove the link."

The aim eventually is to produce a data base on the effects of lidocaine on the liver over time. Treatment can then be based both on an understanding of what is happening and on a statistical prediction of what is likely to happen.

Dr. Gray's research is funded by the Alberta Heart Foundation and by the National Science and

Engineering Research Council of Canada. □

\* Reprinted from Research Report, published by the University's Office of Public Affairs.

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## Selection Committee for Deans: Review of Composition

The composition and size of selection committees for Deans are being reviewed by the Executive Committee of General Faculties Council.

Information about the current composition of such committees is available from Ellen A. Schoeck Solomon, 2-5 University Hall. If you wish to submit your views on this subject, write to Dean Jean A. Bour, c/o 2-5 University Hall by 31 October 1988. □

## Annual Orientation of Graduate Teaching Assistants Gets Under Way Next Week

As part of its mandate to improve teaching and learning at the University of Alberta, the Office of the Committee for the Improvement of Teaching and Learning (CITL) sponsors and

coordinates an annual orientation for graduate teaching assistants. This year's orientation is the eighth annual event.

Nineteen sessions will be held between 7 and 21 September

(another three will be held at registrants' convenience). Topics range from "Survival Techniques" to "Choosing a Supervisor and Working Happily Ever After" to "How Not to Teach German."

Prompt registration is encouraged (some sessions have enrolment quotas). Registration forms are available from Bente Roed Cochran, Coordinator, CITL, 1-11 University Hall. □

## Talks

### Canadian Institute of Ukrainian Studies and Department of Slavic and East European Studies

8 September, 4 p.m. Mykola Rudenko, writer and head of Ukrainian Helsinki Group, "Contemporary Ukraine." Senate Chamber, Arts Building.

### Canadian Mediterranean Institute

8 September, 7:30 p.m. Caterina Pizanias, "Penelope Then And Now." The Role of Women in the Hellenic Diaspora. Provincial Museum.

### Institute for Financial Research

9 September, 3 p.m. Bob Korkie, "Multivariate Adjustments for Trading Frictions in Returns." 4-16 Business Building.

### Sociology

14 September, noon. Bob Blackburn, head, sociological research, Department of Applied Economics, Cambridge, "Stratification Research: A Theoretical and Methodological Critique. Topic 1 - Off on the Wrong Track: The Development of Mobility Studies." 5-15 Tory Building.

15 September, 3:30 p.m. Dr. Blackburn, "Educational Selection and Social Stratification." 5-180 Education North.

### Science, Technology and Society

15 September, 4 p.m. Milton Freeman, Tory professor of Anthropology, "Exporting Our Morality in Terms of Global Conservation." 1-09 Business Building.

### Physical Education and Sport Studies

16 September, 7:30 p.m. Itid Young, Worcester Polytechnic Institute, "The Idea of a Heterogeneous Public." 2nd Floor, Education North.

17 September, 3:30 p.m. Catherine Keller, Drew University, "Endtimes, Deadlines, and the Time of Women." 2nd Floor, Education North.

### International Centre

19 September, noon. Tolo Molle, Tanzanian student, "Stories from Africa." 172 HUB International.

20 September, 12:30 p.m. Laura Randall-Madsen, "Himalayan Trek." 172 HUB International.

21 September, noon. Lawrence Dombro will share his recent experiences this summer in Xian, PRC, as a participant of the Business Faculty's "China Project." 172 HUB International.

### Slavic and East European Studies

19 September, 3 p.m. Jerzy Tomaszewski, Institute of Political Science, Warsaw University, "The Ethnic Structure of Inter-War Poland." Senate Chamber, Arts Building.

21 September, 11 a.m. Dr. Tomaszewski, "The 1918-1939 Polish State in Relation to its National Minorities." Room 5, Tory Building.

## The Arts

### Exhibitions

#### Ring House Gallery

4 September to 16 October. "Cryptogams: A Photographic and Botanical Exhibition of Lichens, Mosses and Liverworts of Northwest North America." Photography by Robin Bovey, support material by Dale Vitt and Janet Marsh.

### Sports

#### Volleyball

8 September, 8 p.m. Duren Club of West Germany vs. Golden Bears. Main gym.

### Positions

*The University of Alberta is an equal opportunity employer.*

*In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.*

### Support Staff

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 26 August. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.*

Senior Clerk, Pension and Benefits Administration, (\$1,263-\$1,568)  
Clerk Steno II, Agricultural Engineering, (\$1,263-\$1,568)  
Clerk Typist II, Faculty of Graduate Studies and Research, (\$1,263-\$1,568)  
Clerk Typist II, Romance Languages, (\$1,263-\$1,568)  
Clerk Typist II, Sociology, (\$1,263-\$1,568)  
Library Clerk II, Cameron Library (I.L.O.), (\$1,263-\$1,568)  
Clerk Steno III (Part-time, Trust), Health Sciences Laboratory Animal Sciences, (\$844-\$1,060) (prorated)  
Clerk Steno III (Trust/Term to 31 December 1988), Pharmacy, (\$1,407-\$1,767)  
Clerk Steno III (Trust), Biochemistry, (\$1,407-\$1,767)  
Clerk Steno III (Split-funded), Comparative Literature, (\$1,407-\$1,767)  
Clerk Steno III (Trust), Glen Sather Sports Medicine Clinic, (\$1,407-\$1,767)  
Clerk Steno III, Mining, Metallurgical and Petroleum Engineering, (\$1,407-\$1,767)  
Clerk Steno III, Physical Education and Sport Studies, (\$1,407-\$1,767)  
Clerk Steno III (Technical Typist), Faculty of Business, (\$1,407-\$1,767)  
Clerk Steno III, Statistics and Applied Probability, (\$1,407-\$1,767)  
Clerk Typist II, (Temporary, Part-time), Personnel Services and Staff Relations, (\$704-\$854) (prorated)

Clerk Typist III, (Part-time), Microbiology, (\$844-\$1,060) (prorated)  
Clerk Typist III, East Asian Languages and Literatures, (\$1,407-\$1,767)  
Library Clerk III, Faculté Saint-Jean, (\$1,407-\$1,767)  
Mailroom Clerk II, Materials Management, (\$1,454-\$1,845)  
Administrative Clerk, Physical Plant, (\$1,568-\$2,003)  
Medical Steno (Split-funded), Medicine (Nephrology and Immunology), (\$1,568-\$2,003)  
Medical Steno, Medicine (Cardiology-Research), (\$1,568-\$2,003)  
Secretary (Trust), Centre for Frontier Engineering Research, (\$1,568-\$2,003)  
Secretary (Trust), Electrical Engineering, (\$1,568-\$2,003)  
Secretary (Trust), Glen Sather Sports Medicine Clinic, (\$1,568-\$2,003)  
Secretary, Cameron Library, (\$1,568-\$2,003)  
Office Services Senior Clerk, Faculty of Agriculture and Forestry, (\$1,767-\$2,274)  
Senior Accounts Clerk, Office of the Comptroller, (\$1,767-\$2,274)  
Food Services Worker I, (Assistant Baker), Housing and Food Services, (\$1,263-\$1,568)  
Parking Attendant (Recurring term), Physical Plant, (\$1,263-\$1,568)  
Parking Attendant, Physical Plant, (\$1,263-\$1,568)  
Laboratory Assistant II (Recurring term), Geography, (\$1,263-\$1,568)  
Laboratory Assistant III (Part-time, Trust), Pathology (Medical Laboratory Science), (\$884-\$1,110) (prorated)  
Equipment Assistant I, Physical Education and Recreation (Support Services), (\$1,454-\$1,845)  
Equipment Supervisor, Physical Education and Recreation (Support Services), (\$1,845-\$2,373)  
Library Assistant III, Cameron Library, (\$1,845-\$2,373)  
Biology Technologist I/II (Part-time, Trust), Genetics, (\$1,002-\$1,412) (prorated)  
Biochemistry Technologist I (Trust), McEachern Laboratory, (\$2,003-\$2,585)  
Administrative Assistant I (Finance), University Computing Systems, (\$2,003-\$2,585)  
Nurse (Trust), Medicine, (\$2,088-\$2,703)  
Technologist II (Trust), Animal Science, (\$2,178-\$2,823)  
Programmer Analyst II (Term), University Computing Systems, (\$2,373-\$3,082)  
Programmer Analyst III (Term), University Computing Systems, (\$2,823-\$3,686)  
Programmer Analyst III, Library Systems, (\$2,823-\$3,686)  
Controls Fitter, Physical Plant, (\$3,136)  
*For vacant Library positions, telephone 432-3339.*

### Advertisements

#### Accommodations available

Victoria properties - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call collect (604) 592-3666, Lois Dutton, Wessex Realty, Victoria, B.C.  
Sale - Pigeon Lake, lakefront, 150'. Beautiful, panoramic view. Winterized, cedar/stone cottage. Fully furnished. Fieldstone fireplace. Good well. Natural gas heating. Trees galore ensure privacy. Call Jean, 484-6601, 487-0125.  
Sale - Lakefront, Wabamun. 100' waterfront. Terrific view. Fully furnished, three-bedroom cottage. Immediate possession. Great location. Perfect retreat. Chris Tenove, 433-5664, 436-5250. Spencer Realty. Sale - Hubbles Lake. \$19,500. Nicely treed, 4.38 acres. Mobile home. Chris Tenove, 433-5664, 436-5250. Spencer Realty. Sale - Windsor Park. Fully developed home. 1,700'. Nice location. For details, call Chris Tenove, 433-5664, 436-5250. Spencer Realty. Sale - Acreage, west of city. Large bungalow with main floor family room. South yard. Nicely treed for privacy. Call Chris Tenove, 433-5664, 436-5250. Spencer Realty. Sale - Belgravia. Three-bedroom bungalow. Good location. Walk to University. Chris Tenove, 433-5664, 436-5250. Spencer Realty. Sale - Four, large, city lots. Financing available. Chris Tenove, 433-5664, 436-5250. Spencer Realty. Sale - West end, two storeys, three bedrooms, Under \$80,000. Resi Richter, Royal LePage Realty, 483-9432. Sale - Valleyview. Bungalow, near ravine. Three bedrooms, jacuzzi, fully developed. \$187,500. Resi Richter, Royal LePage Realty, 483-9432. Rent - Riverview. Immaculate, two-bedroom condominium. Quiet, adult building. Near government centre. \$685 includes utilities, parking. 435-0195. Sale - Grandview Heights. Totally redone, three-level split. Absolutely immaculate. New kitchen, bath, carpet, stone fireplace, built-in appliances, A/C. Sherry Mailo, Canada Trust Realty, 468-2100. Sale - Grandview bungalow. Excellent condition. Open beam. Lovely open design. Lots of built-ins. For viewing, call Sherry Mailo, Canada Trust Realty, 468-2100. Sale - Three-bedroom semi-bungalow. Extensive improvements, new garage, furnace. Immaculate home, excellent landscaping. Owner purchased new home, anxious to sell. Five minutes to University. 438-5100, 438-5006. Share - House, University area, preferably female, non-smoking. Furnished, washer, dryer. Rent \$250/month plus shared utilities. Available 1 September. Call Ruth at 439-0910. Sale - Bungalow, prestigious location, west end. Three bedrooms, family room, developed basement, fireplace, double garage. Resi Richter, Royal LePage Realty, 483-9432. Rent - Near University. Four bedrooms, two full baths, appliances included, garage. Non-smokers, no pets, will rent to family or students. Contact Melony, 431-1174 after 6:30 p.m. Available 1 October. Sale - Garneau. Restored, exquisite, two storeys, spacious, three bedrooms, beautiful new kitchen and bathroom, hardwood floors. Seven appliances. Walk to University and hospital. \$149,900. By owner. 433-1880. Sale - Close University/all amenities. Immaculate bungalow. Two plus one bedrooms. Four appliances included. Garage. West-facing back yard. Asking \$70,500. Call today. Shirley Kilfoyle, Royal LePage Realty, 438-5100 (24 hours). Rent - Furnished, four-bedroom home, \$500 plus utilities. 26 October-4 April. All appliances, car plug-ins. Twelve minutes from University. References. 489-7238. Rent - Furnished home in Toronto. Beaches area, three bedrooms, study, piano. Excellent schools, close to TTC and beach. Available January-July 1989 (negotiable). \$1,200, utilities. (416) 698-6742 res., 978-6623 office. Rent - Near University, clean, two-bedroom house. October. Finished basement with extra bedroom, double garage, one block to bus. Married couple preferred, non-smokers, no pets. \$600. 434-4882.

Sale - Secluded log home on 3.5-treed acres. Perfect getaway, mountain view, four bedrooms, winterized, cathedral ceilings, fireplace. Owner, 987-4820. Agent, 845-5100. Rent - Two-bedroom bungalow, appliances, basement, walking distance to University. References and damage deposit required. 451-2281. Rent - One-bedroom, furnished apartment. 9908 114 St. Pool, sauna. 1 October-30 April. Mature individual. Damage deposit. \$700/month. 488-7, evenings, weekends. Sale - Garneau. Three-bedroom, character bungalow with den. Single, attached garage plus double, detached garages. Hardwood floors throughout, including kitchen. Walking distance to hospital and campus. NRS Realty, Luke Flanagan, 438-6111.

#### Accommodations wanted

Urgently required - Two- or three-bedroom, fully furnished home, preferably south side, for the month September. 475-2577. Ask for Helmut Berndt during business hours. Professor wishes to buy four-bedroom, two-storey house in Windsor Park or Glenora. Closing date flexible, before or after spring 1989. 435-5325.

#### Automobiles and others

1980 Ford Fairmont, good condition, good tires, good on gas, four-cylinder. \$1,950 obo. 459-5276.

#### Goods for sale

"Ice, Stars and Saucers", available at the Edmonton Bookstore; only minutes from campus at 8530 109 St. Quality books bought and sold. 433-1781.

Cash paid for appliances. 432-0272. Piano: large, black Yamaha upright, model U1 with adjustable chair. Professional quality, regularly tuned. 433-4081.

#### Services

Donnic Word Processing - Since 1978, specializing in theses, manuscripts, etc. 453-2769.

Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Ave. 436-8059.

Professional typist-word processing. Specializing in theses, dissertations, manuscripts. Gwen, 467-9064. Convert most Apple to IBM.

Old-fashioned style interior plastering specialists, 75 years combined experience, finest quality finished product "Guaranteed". If you appreciate quality, please phone Stan, 479-6640, after 5:30 p.m. 459-5084. Complete drywall services. References.

Childcare and learning activities for preschoolers. Enrolment limited to four children. Care given by experienced mother and teacher. Excellent references. Close to University. 437-7764.

Jazzercise, the original dance fitness program, offers eight classes, \$14. Valid 7 September-31 October. New students only, UAH, Nurses Residence. Monday/Wednesday, 5-6 p.m. For information, call Dina, 478-8997.

Piano theory, harmony lessons. Beginners-adults. Western Board. Robert Gariepy, 433-7238. Professional typist with BA, word processing, specializing in theses, dissertations. Lois, 464-2351. International folk dancing: instruction and practice 8-10:30 p.m., Friday evenings, starting 16 September, University campus, Physical

Education, room 14. No partner required, fee \$25/year. Phone Jean, 435-7811.

University area family requires part-time nanny for infant and toddler while mother attends law school. 432-7860. Mill Creek Preschool Educational Society. Children 2-5 years, full- or part-time. Program includes: music, ballet, physical coordination, painting, drawing, preschool readiness skills,

French. Qualified teachers. 439-8047, 465-7285.

Belgravia Co-op. Playschool has openings for three and four year olds, weekday mornings. Queries may be made to Chris at 435-6421.

Typing, computer services, Atari Mega ST2 computer, Atari SLM 804, laser printer, excellent software and excellent typist. Monday-Friday. Call Joanna, 433-1161.

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You want to be sure about the human and professional qualities of the person in that unique one-on-one relationship with your child. Call LILLIAN UPRIGHT for an interview appointment.

**Qualified:** A Mus (gold medallist), ARCT (gold medallist), LRSM, L Mus. BA (concentration in Psychology), M Mus (piano performance), D Mus (piano performance: completion date - Oct. 1988).

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**Recognized:** "... a highly sensitive and intelligent musician. She is one of the finest teachers I know." - Dr. E. Lejano, Professor of Music, U of A.

"... a superb musician. She has had considerable success imparting her knowledge, enthusiasm, and artistic standards to others." - Dr. R. Strangeland, Professor Emeritus and former chairman, U of A Music Department.

"Lillian Upright is an excellent teacher, a brilliant pianist and a highly communicative person." - Professor Helmut Brauss, U of A Music Department.

**Mature:** Mother of five sons. More than three decades of teaching experience.

### LILLIAN UPRIGHT

5 Gate Avenue, St. Albert  
(20 minutes north of campus over Groat Road).

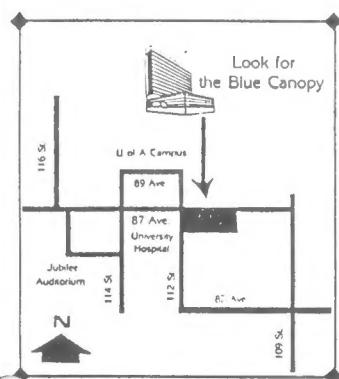
Telephone 459-6997

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One Bedroom Suites  
\$58.00 per day on a daily basis  
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Rates are subject to change without notice.

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Airfare to Brisbane, Sydney, or Melbourne as low as **\$1,499**, Save up to \$450 per couple.

\*Special conditions apply



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## C-FER

Centre for Frontier Engineering Research

## Secretary

C-FER is in immediate need of a skilled secretary to type correspondence and technical reports; prepare graphs and audio visual materials; and undertake a wide range of miscellaneous secretarial duties. Applicants should possess grade twelve education, business/secretarial school training and a minimum of four years related experience. Familiarity with a variety of IBM and Macintosh software is essential.

Applications (with references) should be sent to:

Bonnie Barr  
C-FER Building  
University of Alberta Campus  
Edmonton, Alberta T6G 2E2  
Telephone (403) 432-5108

*C-FER is a non-profit research institute located on the University of Alberta campus. The mandate of the Centre is to undertake research designed to foster the safe and economical development of Canada's frontier petroleum resources.*

## THE ROAD AHEAD: Strategies for Democratic Socialism

A 3-day seminar

September 9-10-11, 1988

### Featuring

Tony Benn, MP (Chesterfield, Great Britain)  
Caroline Benn  
Rosemary Brown  
Pauline Jewett, MP  
William Roberts, MLA

Friday, September 9 - SUB Theatre, U of A - 7:30 p.m.  
**Democracy & Socialism:** Tony Benn

Saturday, September 10 - Education Building North  
**Defining the Problem**  
**Proposing the Remedy**

Sunday, September 11 - Education Building North  
**Democracy and Strategies for Change**

I wish to attend Tony Benn's keynote speech on Friday evening:  \$5

I wish to attend the seminar on Saturday and Sunday:  \$25  
(does not include keynote speech)



For more information, contact:  
Betty Mardiros, 8902 - 120 Street,  
Edmonton, Alberta T6G 1X5,  
telephone (403) 439-0445

**Deadline Dates**

# *Endowment Fund for the Future*

## **Distinguished Visitors**

15 September  
1 December  
15 April

*(Chairman: Dr. D. K. Kieren)*

Application forms are available in Deans' Offices. Departments are reminded that application should be first through their Dean, whose deadlines will be earlier than those noted.

Information available from:  
Ms. D. Cartledge  
3-2 University Hall

## **Fund for Support of International Development and Short-Term Scholarships**

15 October  
15 January  
15 April

*(Chairman: Dr. B. L. Evans)*

Application information available from:  
Miss F. Plishka  
3-12 University Hall

## **McCalla Research Professorships**

Small Faculties: 1 Dec. (for 1 Sept.)  
Large Faculties: 1 May (for 1 Sept.)

**Small Faculties:** Make application through the Vice-President (Academic)'s Standing Committee

*(Chairman: Dr. D. K. Kieren)*

**Large Faculties:** Departments are reminded that application is through their Deans, whose deadlines will be earlier than those noted above.

— Faculty of Arts: 15 January



**University of Alberta**

## **Support for the Advancement of Scholarship**

15 September  
1 December  
1 March  
1 June

**Small Faculties:** Make application through the Vice-President (Academic)'s Standing Committee.

*(Chairman: Dean S. Bertram)*

**Large Faculties:** Departments are reminded that application is through their Deans, whose deadlines may be different than those noted above.

## **University/Community Special Projects**

15 October  
15 January  
15 April

*(Chairman: Dr. J. Hibberd)*

Application information available from:  
Mrs. T. Gibson  
3-6 University Hall

## **Agriculture and Forestry**

Departments in this Faculty should consult the Dean's Office.